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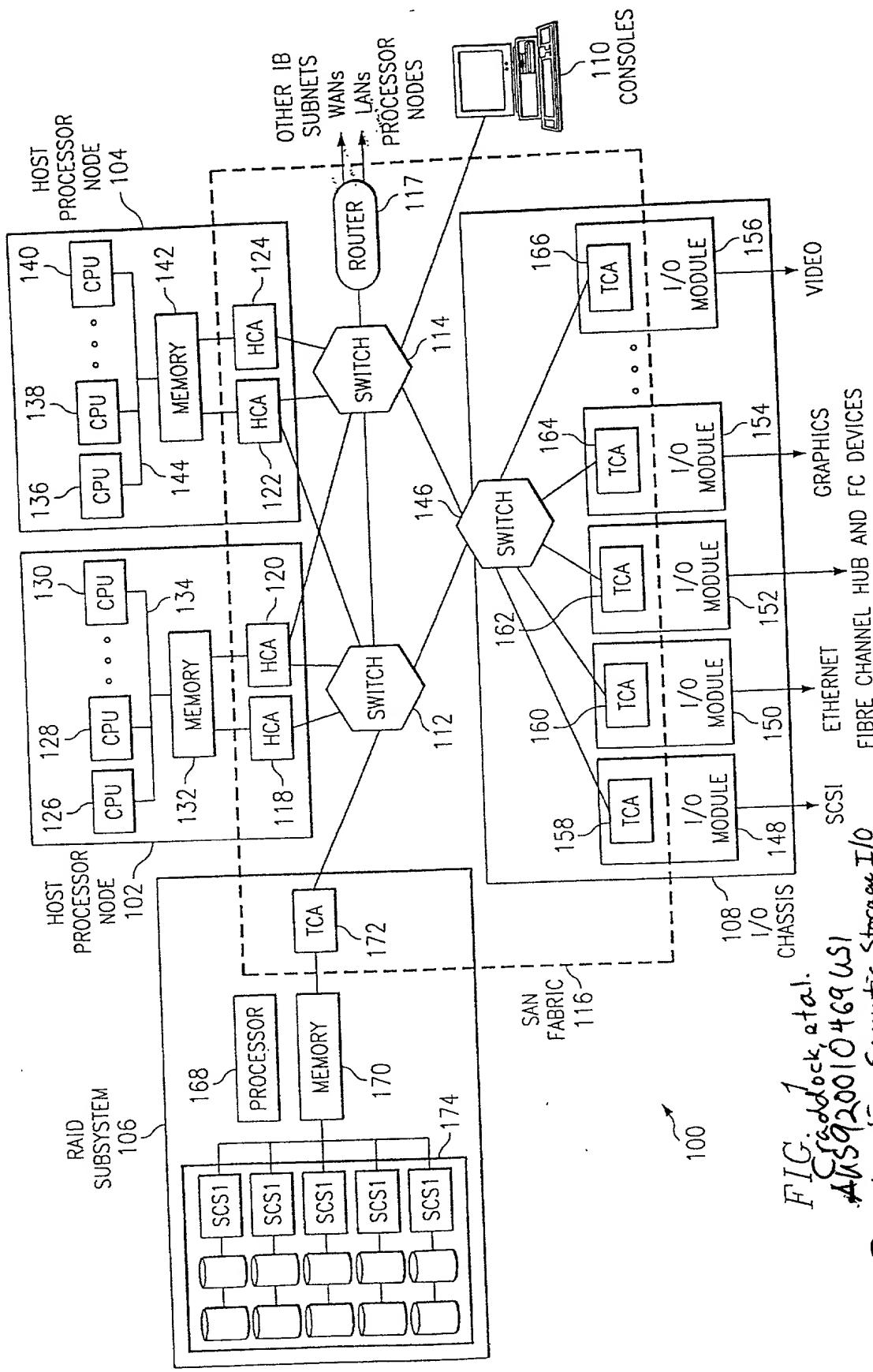
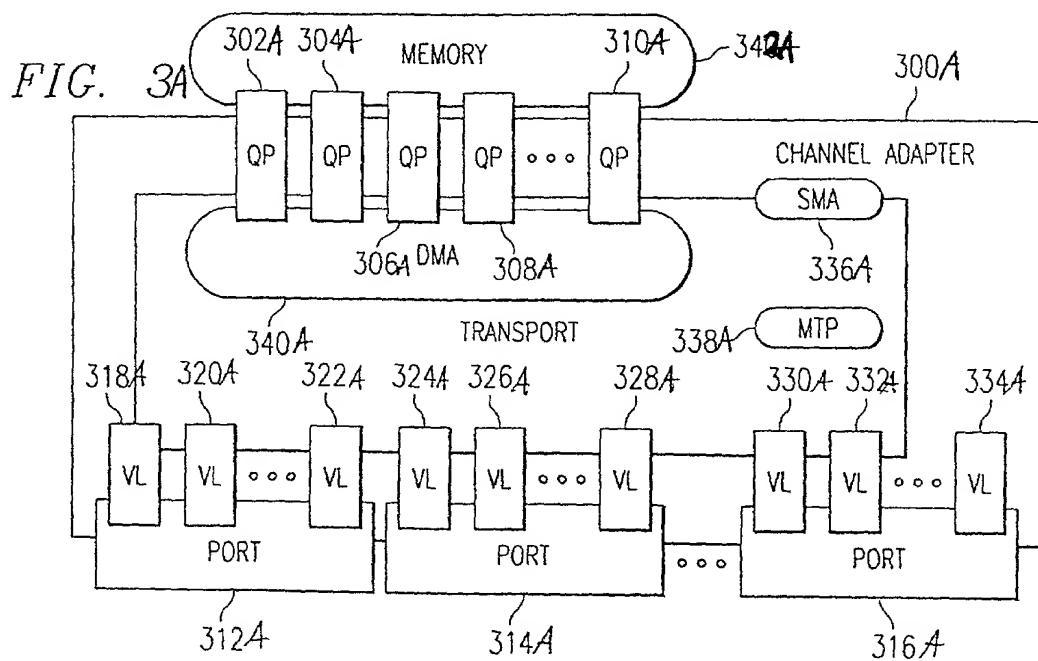
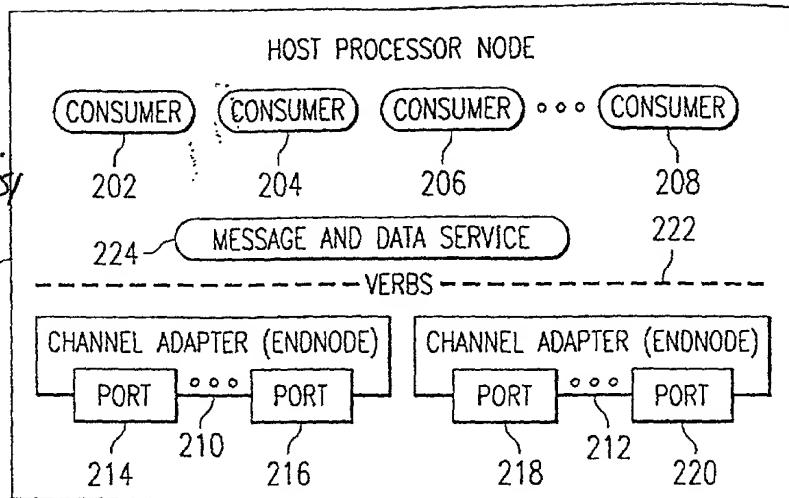


FIG
Gridlock at.
MS20010469 US1
PCI Migration, Semantic Storage I/O
Page 1 of 3

FIG. 2
Cradock et al.
 AUS 920010469101
 PCI Migration Semantic
 Storage I/O
 Page 2 of 13



AUS920010469US1
Craddock, et al.

PCI Migration

Semantic Storage I/O

Page 3 of 13

Fig. 00

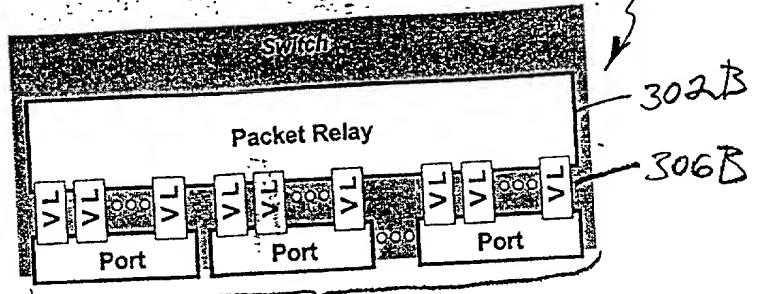
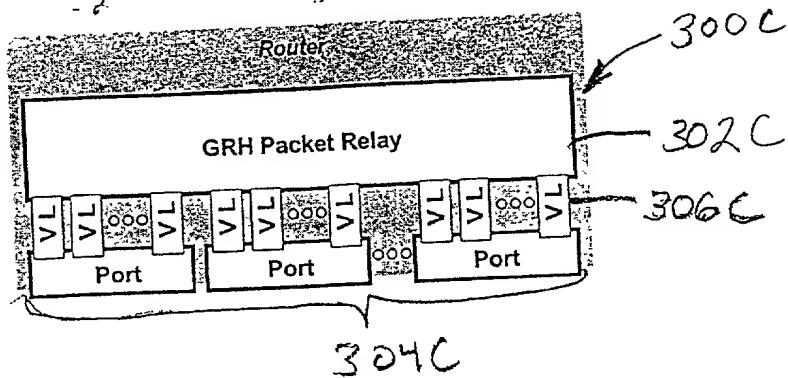


Fig. 3C

304B



Cradlock, et al.

FIG. 4
AUS920010469US1

PCI Migration
Semantic Storage
I/O
Page 4 of 13

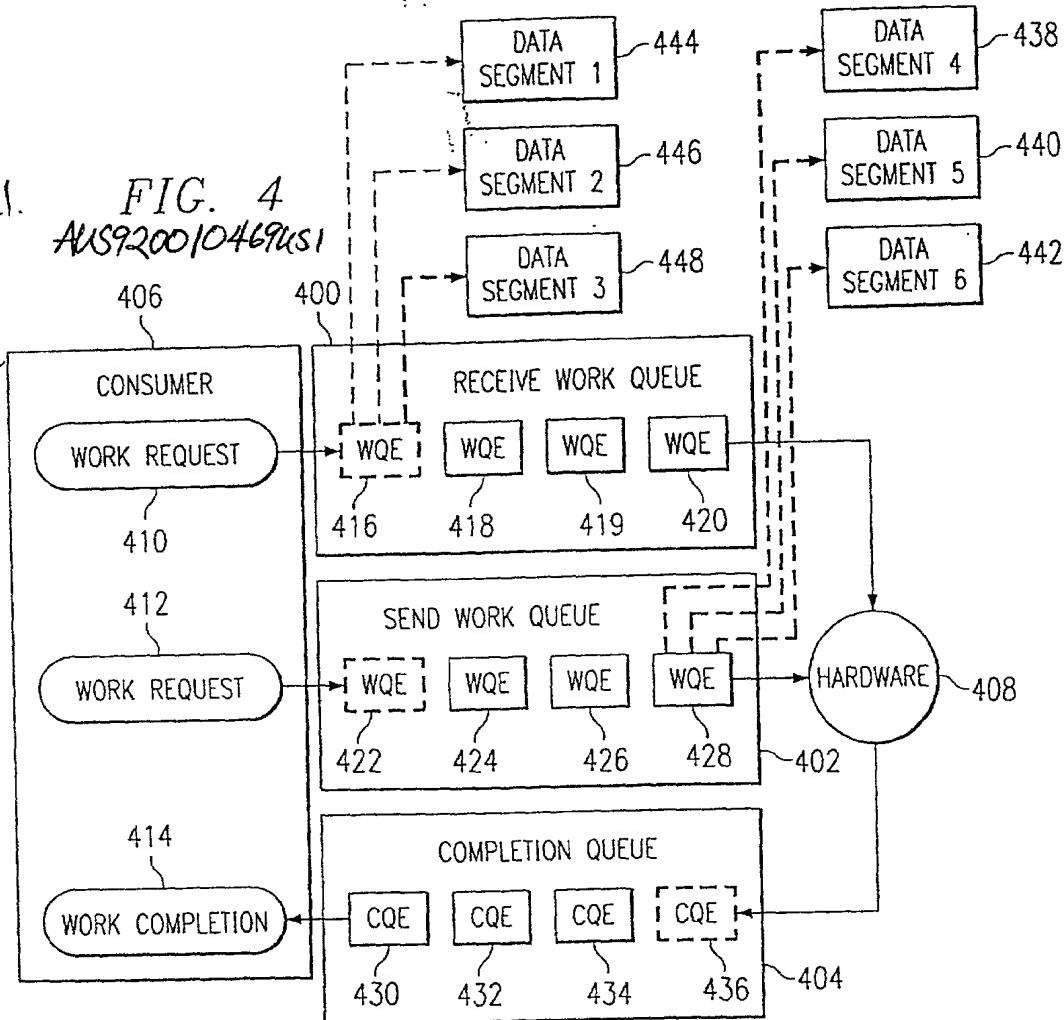


FIG. 5
Craddock, et al. AHS920010469us1
PCI Migration Semantic
Storage I/O Page 5 of 13

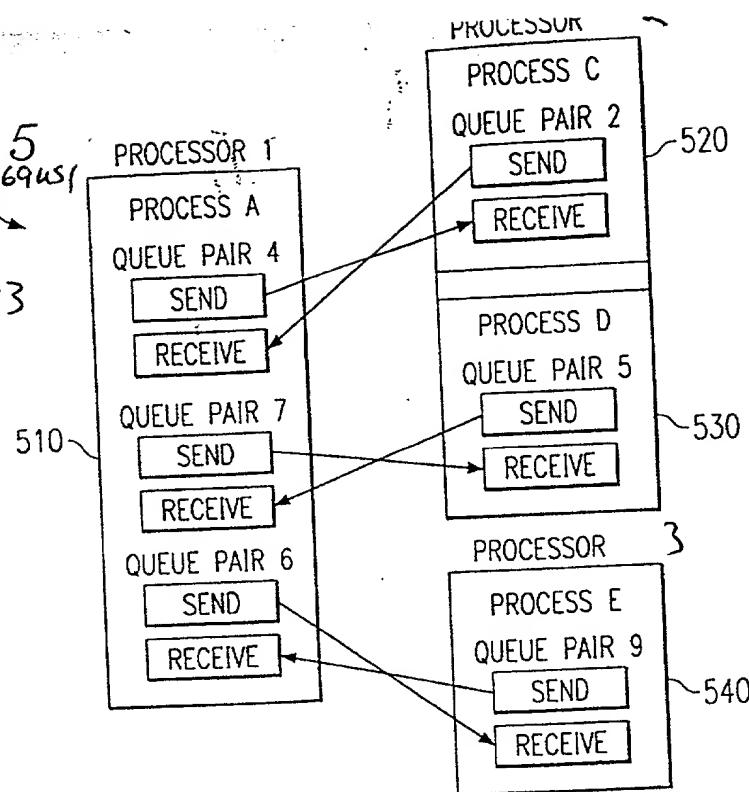
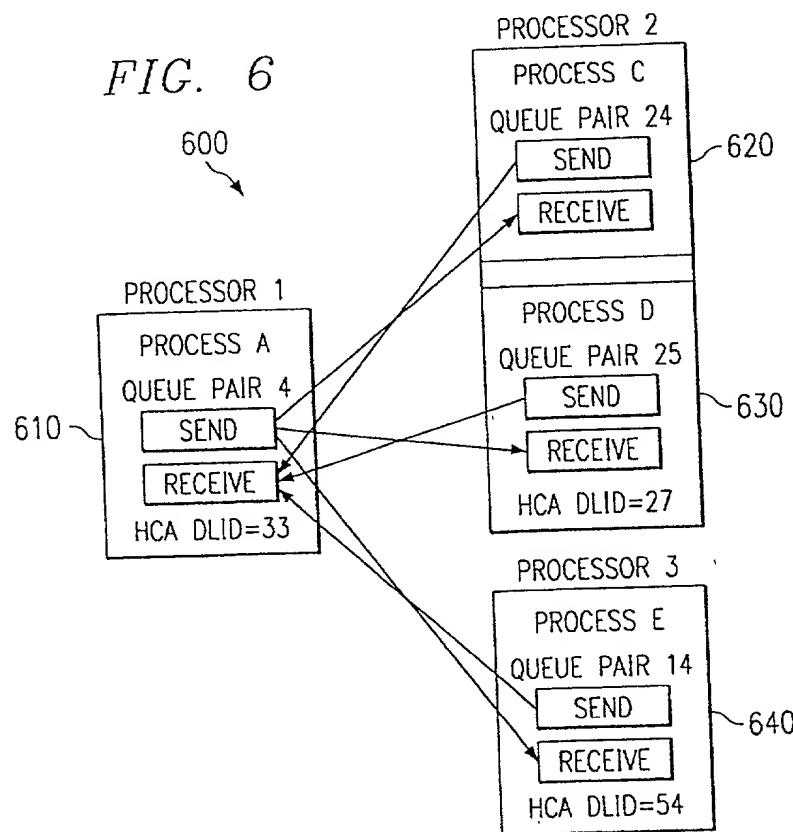
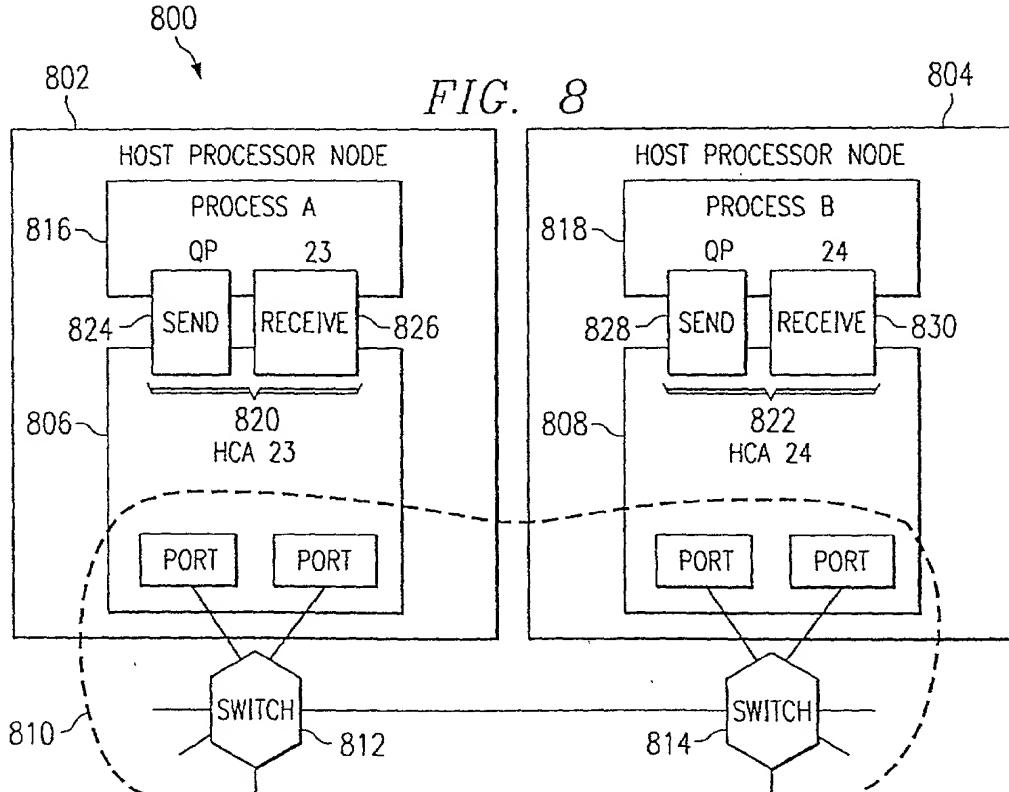
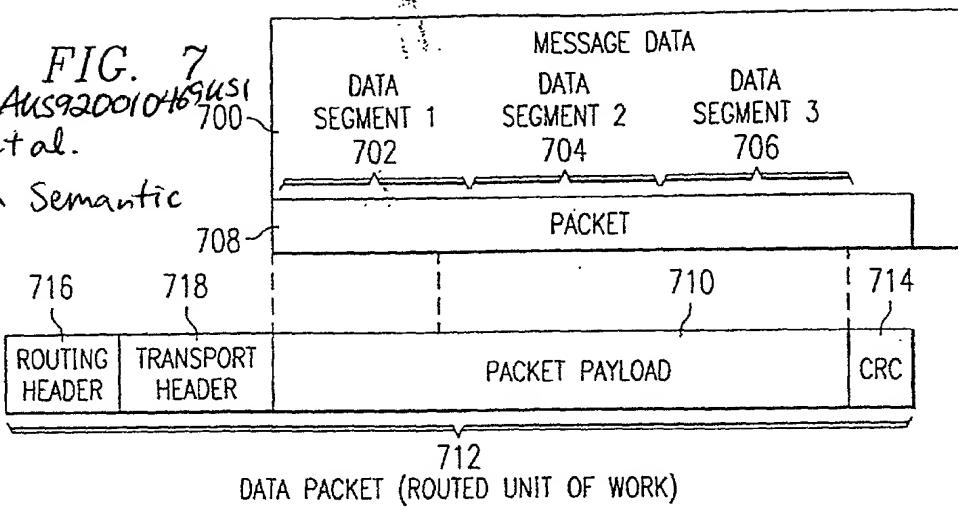
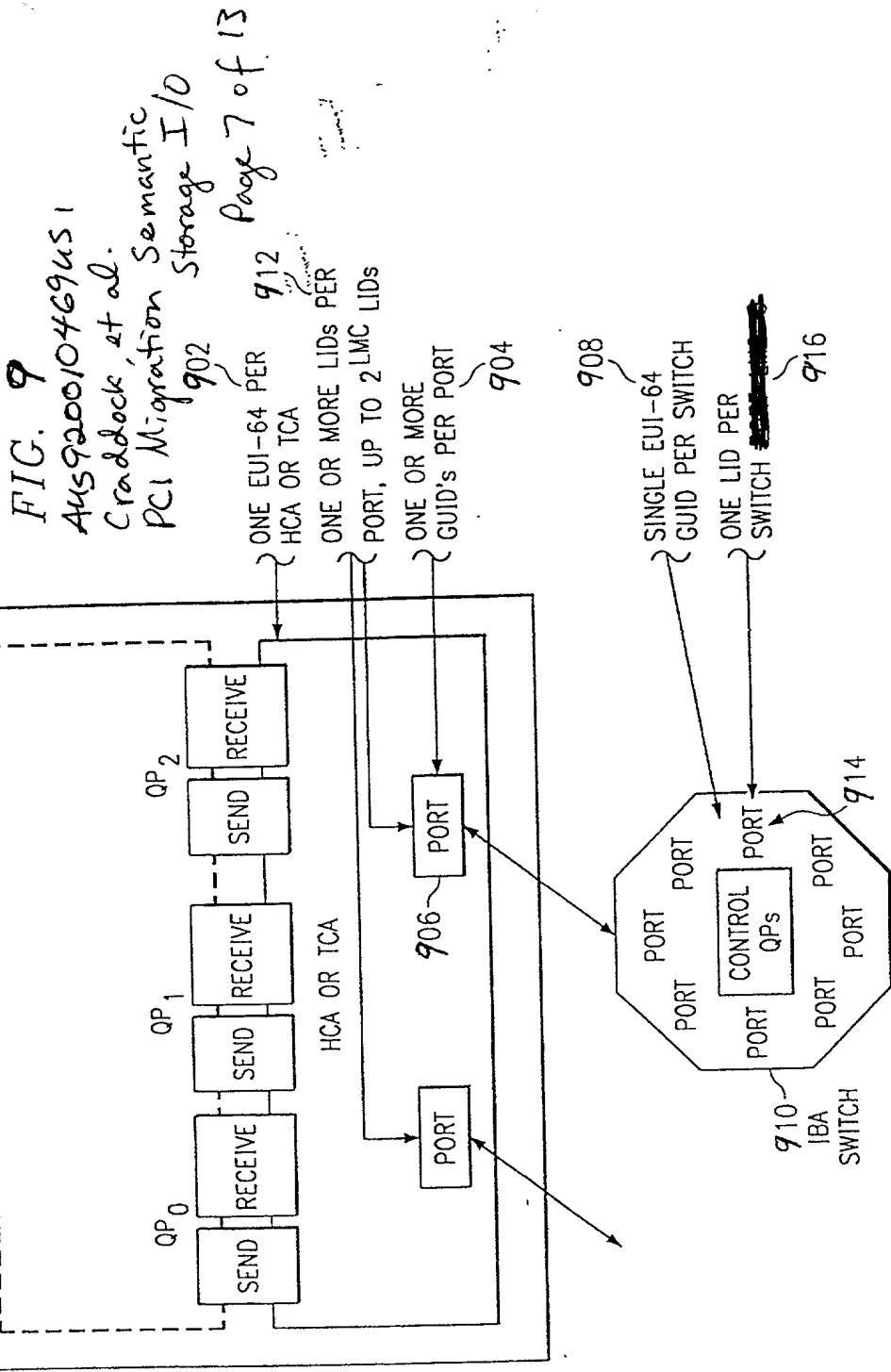


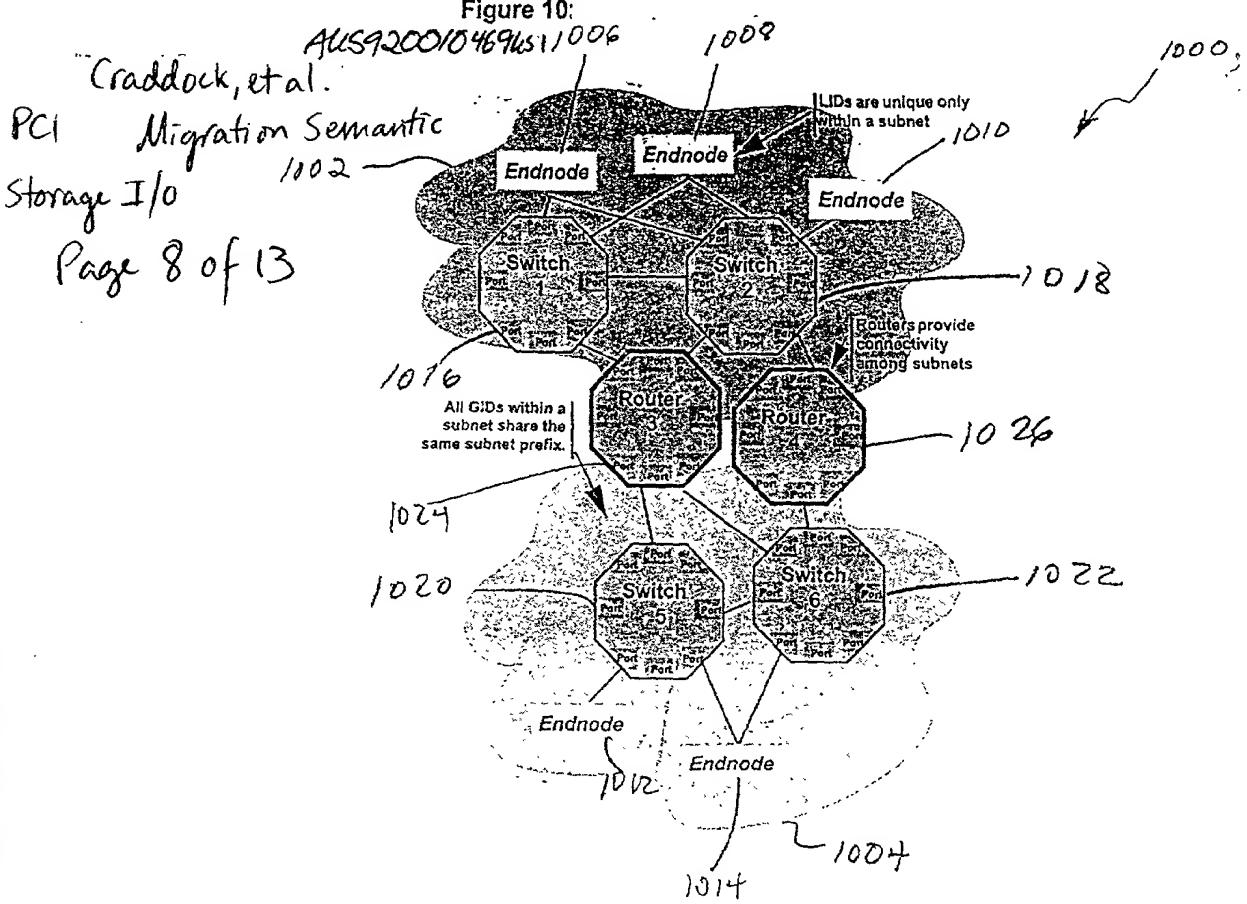
FIG. 6

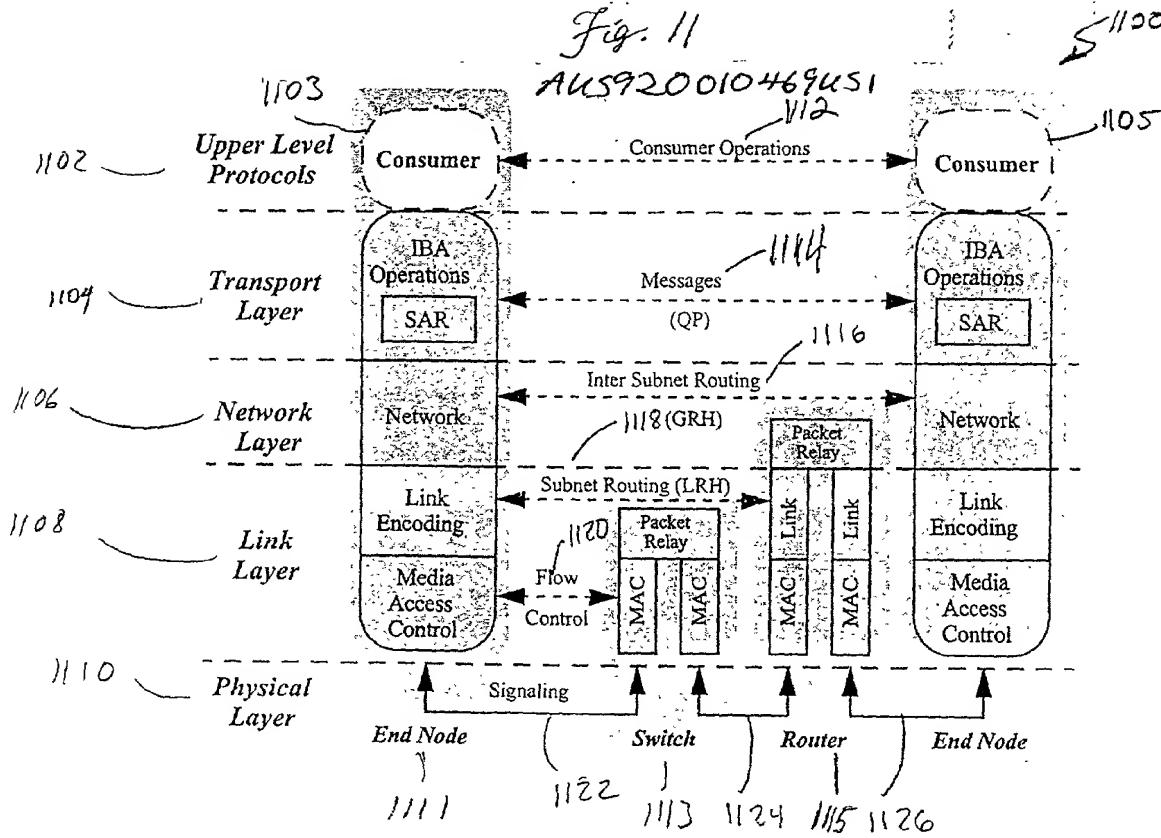


Craddock, et al.
PCI Migration Semantic
Storage I/O
Page 6 of 13









Craddock, et al.
PCI Migration Semantic Storage I/O
Page 9 of 13

Figure 12

AHS920010469451

Craddock, et al.

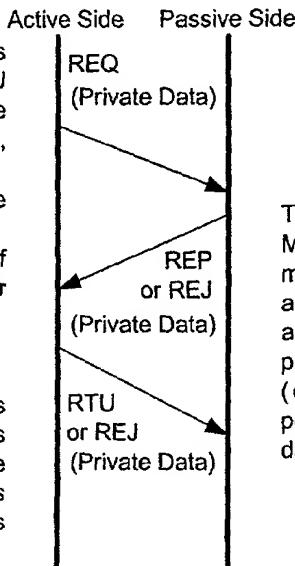
PCI Migration Semantic Storage I/O

Page 10 of 13

The Communication Management REQuest message is used to initiate the connection. The REQ, REP, and RTU contain a private data field. The present invention uses the private data field to communicate I/O consumer information, this includes:

- The lease period required by a service (e.g. for 1 or more connection)
- The resources required by a service (e.g. number of connections, number of QPs, capacity of read cache buffer space, capacity of fast write buffer space, QP depth, etc.)
- The address of request and response memory queues.

Communication Management ReadyToUse message is used to accept the passive side's REP. If the passive side's private data presented settings that are unacceptable to the active side (e.g. lease period is shorter than the active side's policy), then the active side can send a REject message as a response to the passive side's REP.



The Communication Management REPLY message is used to accept a connection. Alternatively, a REJ can be used to propose alternate settings (e.g. a shorter lease period), through the private data of the REJ.

Figure 13
 AUS920010469451
 Craddock, et al.
 PCI Migration Semantic Storage I/O
 Page 11 of 13

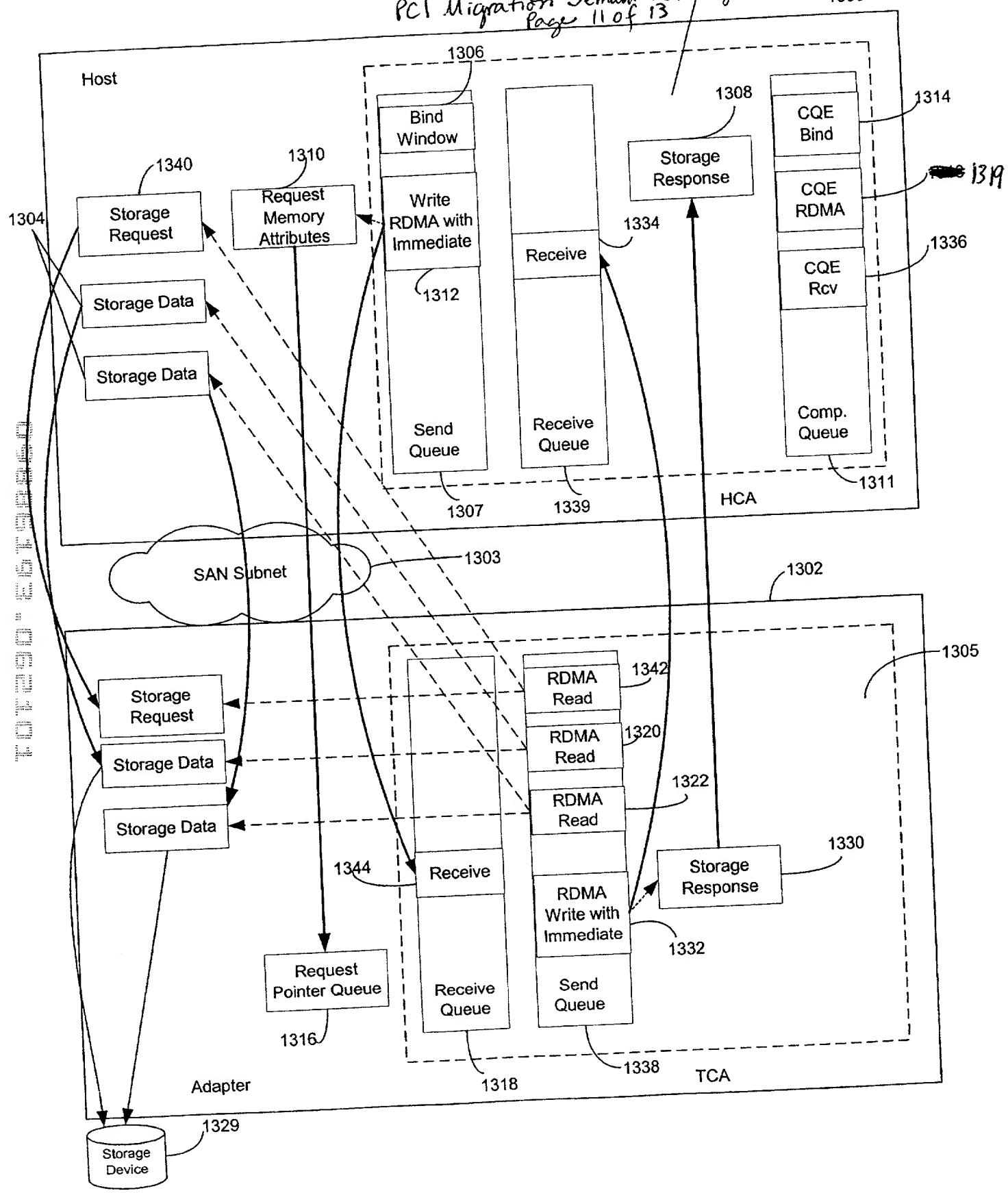


Figure 14
 Craddock, et al.
 AUS200104694S1
 PCI Migration Semantic Storage I/O
 Page 12 of 13 / 400

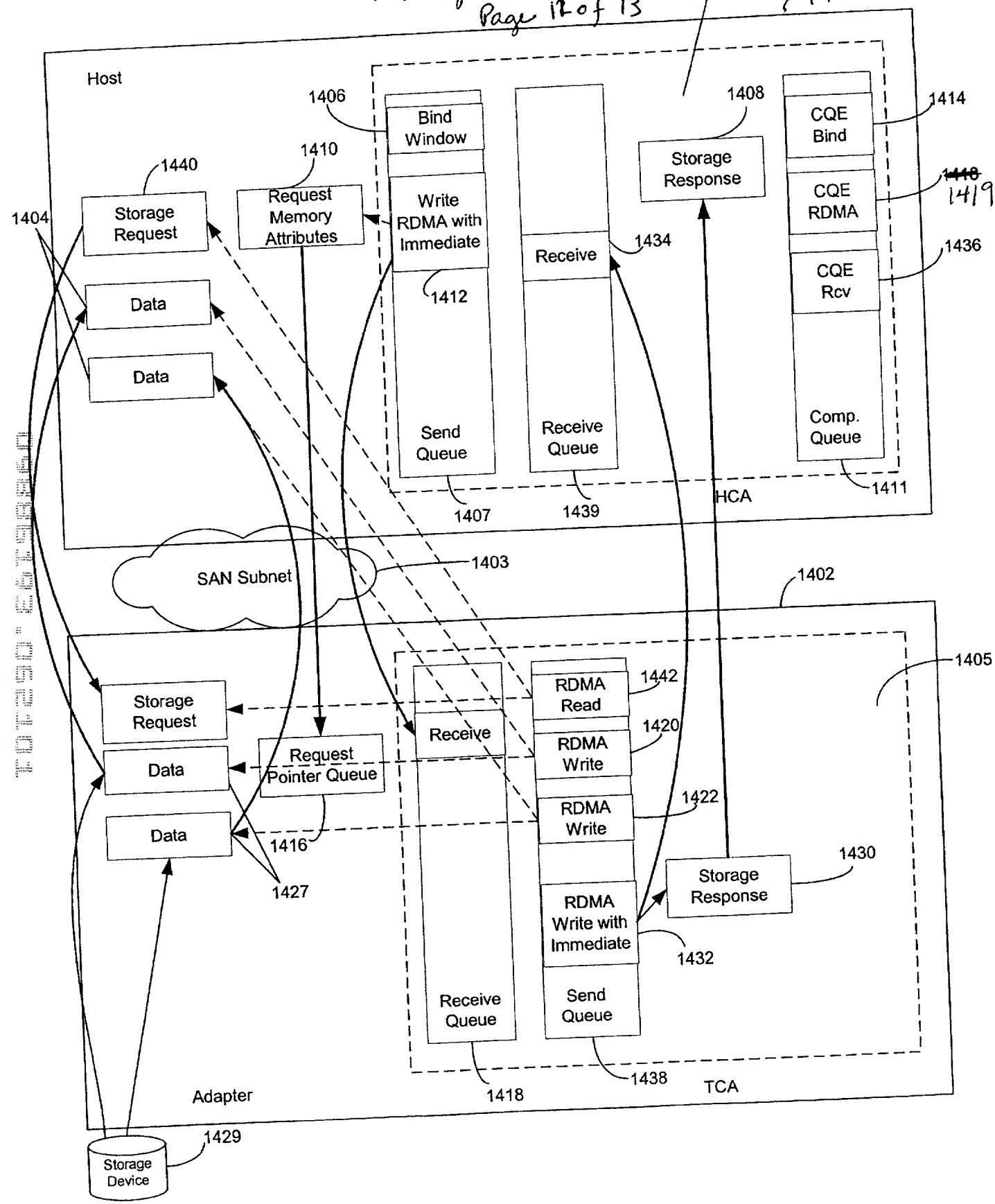


Figure 15

AUS920010469US1

Cradock, et al.

PCI Migration Semantic Storage I/O

Page 13 of 13

